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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECH CENTER 1600/2900

JUN 26 2001

RECEIVED

Applicants: M. P. Neeper et al.  
Serial No.: 09/642,405 - Case No.: 20413Y  
Filed: August 21, 2000  
For: SYNTHETIC HUMAN PAPILLOMAVIRUS GENES  
Art Unit: 1653  
Examiner:

The Assistant Commissioner for Patents  
Washington, D.C. 20231

SEQUENCE LISTING

Sir:

REMARKS

Applicants are enclosing a copy of the Sequence Listing in computer readable form.

We the undersigned hereby state that the content of the paper and computer readable copies of the Sequence Listing are the same.

The enclosed diskette contains the Sequence Listing for case number 20413Y.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date appearing below.

**MERCK & CO., INC.**

By Joanne M. Giesser Date June 19, 2001

Respectfully submitted,

By Joanne M. Giesser  
Joanne M. Giesser  
Reg. No. 32,838  
Attorney for Applicants

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Date: June 19, 2001  
Enclosure

09642405-062101



## SEQUENCE LISTING

<110> Neeper, Michael P.  
McClements, William L.  
Jansen, Kathrin U.  
Schultz, Loren D.  
Chen, Ling  
Wang, Xin-Min

<120> SYNTHETIC HUMAN PAPILLOMAVIRUS GENES

<130> 20413Y

<140> 09/642,405

<141> 2000-08-21

<150> PCT/US00/22932

<151> 2000-08-21

<150> 60/210,143

<151> 2000-06-07

<150> 60/150,728

<151> 1999-08-25

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

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&lt;212&gt; DNA

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&lt;220&gt;

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&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Codon-Optimized HPV18 E7

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&lt;211&gt; 1107

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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<210> 31

<211> 25

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<210> 32

<211> 38

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<210> 33

<211> 129

<212> DNA

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<210> 57

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<210> 83

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<211> 22

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109

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<212> DNA

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&lt;223&gt; Codon-Optimized HPV6 E2 fragment

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&lt;211&gt; 95

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Codon-Optimized HPV6 E2 fragment

&lt;400&gt; 117

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